

WHAT IS CLAIMED IS:

1. An injection apparatus, comprising:
  - a housing;
  - a group of lancets configured to move axially within the housing; and
  - an injection spring to drive the group of lancets out of the housing upon actuation of the injection apparatus.
2. The injection apparatus of claim 1, further including a pushbutton trigger in mechanical communication with the housing, wherein depression of the trigger actuates the injection apparatus.
3. The injection apparatus of claim 1, further including a lancet base to affix the group of lancets in a position relative to one another, wherein the lancet base is in mechanical communication with the injection spring.
4. The injection apparatus of claim 3, further including at least one shear pin in mechanical communication with both the lancet base and the housing, wherein the at least one shear pin maintains the mechanical position of the lancet base relative to the housing until the at least one shear pin is fractured upon device actuation.
5. The injection apparatus of claim 4, wherein the injection apparatus includes two shear pins disposed 180° opposite one another.
6. The injection apparatus of claim 3, further including a safety spring configured between the lancet base and an injection end of the housing, wherein the safety spring causes the lancet base to recoil axially within the housing after the group of lancets are at least partially exposed through an opening at the injection end of the housing.
7. The injection apparatus of claim 3, wherein the lancet base includes at least one guide to provide axial stability during administration of a vaccination.
8. The injection apparatus of claim 7, wherein the lancet base includes four guides configured at 0°, 90°, 180° and 270° about the lancet base.

9. The injection apparatus of claim 1, wherein the group of lancets includes from about thirty to about forty lancets.
10. The injection apparatus of claim 1, wherein the group of lancets includes thirty-six lancets.
11. The injection apparatus of claim 1, further including at least one finger rest.
12. The injection apparatus of claim 1, further including a pair of finger rests disposed opposite one another on the housing, each finger rest further including a non-slip surface.
13. The injection apparatus of claim 2, wherein the pushbutton trigger includes a non-slip surface.
14. The injection apparatus of claim 1, further including a cap removably attached to the housing.
15. The injection apparatus of claim 14, further including a soft matrix configured between the cap and the group of lancets.
16. The injection apparatus of claim 1, wherein the group of lancets are coated with a vaccine or other pharmaceutical product.
17. The injection apparatus of claim 16, wherein the vaccine or other pharmaceutical product is selected from the group consisting of a Vaccinia (“Smallpox”) vaccine, an Anthrax vaccine, a tularemia vaccine, an HIV/AIDS vaccine, a Hepatitis A (“Hep-A”) vaccine, a Hepatitis B (“Hep-B”) vaccine, a Diphtheria/Tetanus/Pertussis (“DTP”) vaccine, a *Haemophilus influenzae* type b (“Hib”) vaccine, a Polio vaccine (“IPV”), Pneumococcal conjugate (“PCV7”), a Measles/Mumps/Rubella (“MMR”) vaccine, a Varicella (“Chickenpox”) vaccine, an Influenza vaccine, a Tetanus vaccine, a Lyme Disease vaccine, Pneumococcal Polysaccharide, a vaccine booster shot and combinations of the same.

18. The injection apparatus of claim 16, wherein the vaccine or other pharmaceutical product is an Ebola hemorrhagic fever ("Ebola HF") vaccine.
19. The injection apparatus of claim 17, wherein the vaccine or other pharmaceutical product is a Smallpox vaccine.
20. A method of injecting a vaccine or other pharmaceutical product, comprising:
  - selecting an injection site;
  - placing an injection apparatus against the injection site, the injection apparatus including:
    - a housing,
    - a group of lancets configured to move axially within the housing,
    - the group of lancets including a vaccine or other pharmaceutical product,
    - and
    - an injection spring to drive the group of lancets out of the housing upon actuation of the injection apparatus; and
    - actuating the injection apparatus to inject the vaccine or other pharmaceutical product.
21. The method of claim 20, further comprising removing a cap from the housing prior to placing the injection apparatus against the injection site.
22. The method of claim 20, wherein actuating the injection apparatus further includes depressing a pushbutton trigger on the injection apparatus.
23. A method of manufacturing an injection apparatus, comprising:
  - providing a housing;
  - introducing a safety spring into the housing to rest against an injection end of the housing;
  - introducing a lancet base into the housing and against the safety spring, the lancet base including a group of lancets, the group of lancets being oriented in the direction of the injection end of the housing;

introducing an injection spring into the housing and against the lancet base; and

mechanically coupling a pushbutton trigger to the housing.

24. The method of claim 23, wherein the lancet base includes at least one shear pin, the at least one shear pin coming to rest against a ridge in the housing upon mechanically coupling the pushbutton trigger to the housing.
25. The method of claim 23, wherein mechanically coupling the pushbutton trigger to the housing further includes securing a finger support to the housing by a rotational locking mechanism.
26. The method of claim 23, further including removably attaching a cap to the injection end of the housing.
27. The method of claim 26, wherein prior to removably attaching the cap to the injection end of the housing, the method further includes depositing a vaccine or other pharmaceutical upon the group of lancets.
28. The method of claim 26, wherein the cap includes a volume of vaccine or other pharmaceutical, and removably attaching the cap to the injection end of the housing deposits the volume of vaccine or other pharmaceutical upon the group of lancets.